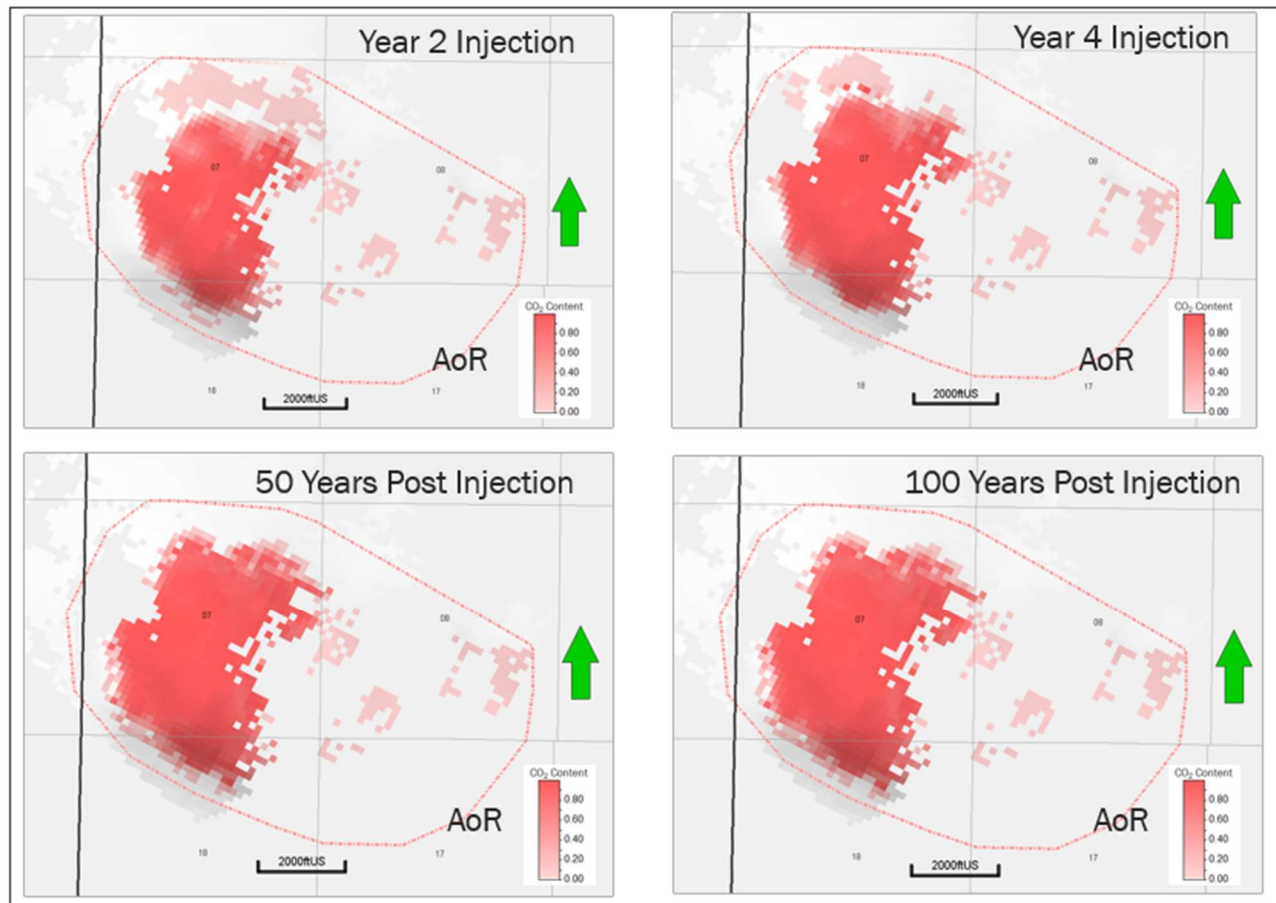


## CLASS VI CO<sub>2</sub> DEVELOPMENT ELK HILLS A1-A2 PROJECT

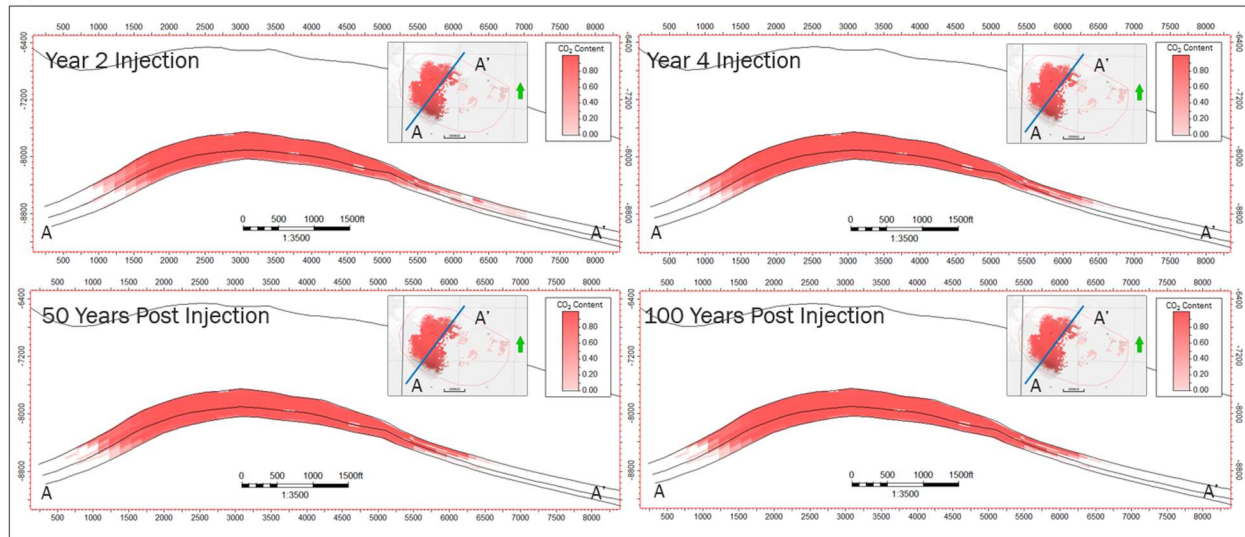
### *Predictions of System Behavior*

The following maps (Figure 1) and cross-sections (Figure 2) show the computational modeling results and development of the CO<sub>2</sub> plume at four –time-steps. For all layers in the model and at all time-steps, the plume stays within the 2.1 square mile AoR. Within the first two years of injection, the AoR extent is largely defined. Thereafter, the CO<sub>2</sub> injectate concentration in the plume increases with continued injection. Post-injection the plume does not decrease in size. The majority of the CO<sub>2</sub> injectate remains as super-critical CO<sub>2</sub>. Figure 3 shows pressure 100 years post injection for the op layer of the reservoir.

**Figure 1:** Plan view showing the plume development through time for layer 15. Note that the plume does not change from 50 years post injection to 100 years post injection.



**Figure 2: Cross-sections showing the plume development through varying times through the project. Note that the plume does not change from 50 years post injection to 100 years post injection.**



**Figure 3: Pressure post injection for top layer of the computational model.**

